CLINICAL AND EXPERIMENTAL IMMUNOLOGY

CONTENTS

Vol 100 No 1 April 1995

C. G. M. KALLENBERG, E. BROUWER, A. H. L. MULDER, C. A. STEGEMAN, J. J. WEENING & J. W. COHEN TERVAERT: ANCA—pathophysiology revisited 1

R. A. KAY: The potential role of superantigens in inflammatory bowel disease 4

R. J. TRAUGER, W. GIERMAKOWSKA, S. WORMSLEY, J. TURNER, F.C. JENSEN & D.J. CARLO: Autoproliferation in HIV-1-infected patients undergoing active HIV-1-specific immunotherapy 7

T. YAMAMOTO, K. YONEDA, T. OSAKI, N. YOSHIMURA & N. AKAGI: Longer local retention of adoptively transferred T-LAK cells correlates with lesser adhesion molecule expression than NK-LAK cells 13

T. VAN DER POLL, M. LEVI, H. TEN CATE, J. JANSEN, B. J. BIEMOND, B. L. HAAGMANS, A. EERENBERG, S. J. H. VAN DEVENTER, C. E. HACK & J. W. TEN CATE: Effect of postponed treatment with an anti-tumour necrosis factor (TNF) $F(ab)_2$ fragment on endotoxin-induced cytokine and neutrophil responses in chimpanzees 21

J. S. SHIN, J. H. PARK, J. D. KIM, J. M. LEE & S. J. KIM: Induction of tumour necrosis factor-alpha (TNF-α) mRNA in bladders and spleens of mice after intravesical administration of bacillus Calmette–Guérin 26

A. E. PLATONOV, V. B. BELOBORODOV, L. I. PAVLOVA, I. V. VERSHININA & H. KÄYHTY: Vaccination of patients deficient in a late complement component with tetravalent meningococcal capsular polysaccharide vaccine 32

J. D. GREENSTEIN, P. W. PEAKE & J. A. CHARLESWORTH: The kinetics and distribution of C9 and SC5b-9 *in vivo*: effects of complement activation 40

M. A. H. FRENCH, K. A. DENIS, R. DAWKINS & J. B. PETER: Severity of infections in IgA deficiency: correlation with decreased serum antibodies to pneumococcal polysaccharides and decreased serum IgG2 and/or IgG4 47

M. ULRICH, V. RODRIGUEZ, M. CENTENO & J. CONVIT: Differing antibody IgG isotypes in the polar forms of leprosy and cutaneous leishmaniasis characterized by antigen-specific T cell anergy 54

N. HURT, M. THEIN, T. SMITH, G. BORDMANN, H. GALLATI, N. DREES, M. TANNER & N. WEISS: Immunological markers of childhood fevers in an area of intense and perennial malaria transmission 59

C. A. VON MÜHLEN, E. K. L. CHAN, C. L. PEEBLES, H. IMAI, K. KIYOSAWA & E. M. TAN: Non-muscle myosin as target antigen for human autoantibodies in patients with hepatitis C virus-associated chronic liver diseases 67

A. BRÁS & A. P. AGUAS: Mycobacteria-induced autoantibody production is associated with susceptibility to infection but not with host propensity to develop autoimmune disease 75

K. L. SUMMERS, P. B. DANIEL, J. L. O'DONNELL & D. N. J. HART: Dendritic cells in synovial fluid of chronic inflammatory arthritis lack CD80 surface expression 81

M. SIMON, C. VINCENT, M. HAFTEK, E. GIRBAL, M. SEBBAG, V. GOMES-DAUDRIX & G. SERRE: The rheumatoid arthritis-associated autoantibodies to filaggrin label the fibrous matrix of the cornified cells but not the profilaggrin-containing keratohyalin granules in human epidermis 90

H. OTA, S. KUMAGAI, A. MORINOBU, H. YANAGIDA & K. NAKAO: Enhanced production of transforming growth factor-beta (TGF-β) during autologous mixed lymphocyte reaction of systemic sclerosis patients 99

F. R. BRENNAN, G. NEGROIU, E. I. BUZAS, C. FÜLÖP, K. HOLLÓ, K. MIKECZ & T. T. GLANT: Presentation of cartilage proteoglycan to a T cell hybridoma derived from a mouse with proteoglycan-induced arthritis 104

D. M. KARUSSIS, U. VOURKA-KARUSSIS, D. LEHMANN, O. ABRAMSKY, A. BEN-NUN & S. SLAVIN: Immunomodulation of autoimmunity in MRL/lpr mice with syngeneic bone marrow transplantation (SBMT) 111

J. WOO, T. M. WRIGHT, B. LEMSTER, D. BOROCHOVITZ, M. A. NALESNIK & A. W. THOMSON: Combined effects of FK506 (tacrolimus) and cyclophosphamide on atypical $B220^+$ T cells, cytokine gene expression and disease activity in MRL/MpJ-*lpr*/*lpr* mice 118

L. SEKUT, D. YARNALL, S. A. STIMPSON, L. S. NOEL, R. BATEMAN-FITE, R. L. CLARK, M. F. BRACKEEN, J. A. MENIUS JR & K.M. CONNOLLY: Anti-inflammatory activity of phosphodiesterase (PDE)-IV inhibitors in acute and chronic models of inflammation 126

K. S. SOO, C. A. MICHIE, S. R. BAKER, J. H. WYLLIE & P. C. L. BEVERLEY: Selective recruitment of lymphocyte subsets to the inflamed appendix 133

H. G. LEE, I. CHOI, K. H. PYUN & K. W. PARK: Peritoneal lavage fluids stimulate NIH3T3 fibroblast proliferation and contain increased tumour necrosis factor and IL-6 in experimental silica-induced rat peritonitis 139

I. BOLUDA & L. BERRENS: Do IgE–IgG complexes occur in the circulation? 145

N. OHMIYA, M. ITO, M. OHBAYASHI, T. ARISAWA, H. GOTO, Y. TSUKAMOTO, T. HAYAKAWA & J. ASAI: Two phenotypically distinct B lymphocytes (IgM^{high}-IgD^{low} and $IgM^{low}IgD^{high}$) in chronic gastric ulcer in the rat 151

A. GIOVANNETTI, A. AIUTI, P. M. PIZZOLI, M. PIERDOMINICI, E. AGOSTINI, F. AIUTI & F. PANDOLFI: Tyrosine phosphorylation pathway is involved in interferon-gamma (IFN-γ) production; effect of sodium ortho vanadate 157

J. A. KUMMER, A. M. KAMP, T. M. TADEMA, W. VOS, C. J. L. M. MEIJER & C. E. HACK: Localization and identification of granzymes A and B-expressing cells in normal human lymphoid tissue and peripheral blood 164

C. D'ARRIGO, J. J. CANDAL-COUTO, M. GREER, D. J. VEALE & J. M. WOOF: Human neutrophil Fc receptor-mediated adhesion under flow: a hollow fibre model of intravascular arrest 173

Vol 100 No 2 May 1995

S. J. CHALLACOMBE: Assessing mucosal humoral immunity 181

P. W. MATHIESON & D. B. G. OLIVEIRA: The role of cellular immunity in systemic vasculitis 183

B. E. P. B. BALLIEUX, S. H. VAN DER BURG, E. C. HAGEN, F. J. VAN DER WOUDE, C. J. M. MELIEF & M. R. DAHA: Cell-mediated autoimmunity in patients with Wegener's granulomatosis (WG) 186

J. A. SAVIGE, L. CHANG, L. COOK, J. BURDON, M. DASKALAKIS & J. DOERY: α_1-antitrypsin deficiency and anti-proteinase 3 antibodies in anti-neutrophil cytoplasmic antibody (ANCA)-associated systems vasculitis 194

E. NEU, A. H. VON MIKECZ, P. H. HEMMERICH, H.-H. PETER, M. FRICKE, H. DEICHER, E. GENTH, U. KRAWINKEL & MEMBERS OF THE SLE STUDY GROUP: Autoantibodies against eukaryotic protein L7 in patients suffering from systemic lupus erythematosus and progressive systemic sclerosis: frequency and correlation with clinical, serological and genetic parameters 198

A. H. VON MIKECZ, P. H. HEMMERICH, H.-H. PETER & U. KRAWINKEL: Autoantigenic epitopes on eukaryotic L7 205

J. WHYTE, W. C. EARNSHAW, J. J. CHAMPOUX, L. H. PARKER, L. STEWART, N. D. HALL & N. J. MCHUGH: Detection of anti-topoisomerase I antibodies using a full length human topoisomerase I recombinant protein purified from a baculovirus expression system 214

S. L. NIELSEN, P. L. ANDERSEN, C. KOCH, J. C. JENSENIUS & S. THIEL: The level of the serum opsonin, mannan-binding protein in HIV-1 antibody-positive patients 219

L. WAGNER, M. WIESHOLZER, C. P. WORMAN, G. LANG & W. BASE: BLT-esterase in infectious mononucleosis 223

T. I. MICHALAK, J. Y. N. LAU, B. M. MCFARLANE, G. J. M. ALEXANDER, A. L. W. F. EDDLESTON & R. WILLIAMS: Antibody-directed complement-mediated cytotoxicity to hepatocytes from patients with chronic hepatitis B 227

J. S. FRIEDLAND, J. C. HARTLEY, C. G. C. HARTLEY, R. J. SHATTOCK & G. E. GRIFFIN: Inhibition of *ex vivo* proinflammatory cytokine secretion in fatal *Mycobacterium tuberculosis* infection 233

A. GAAFAR, A. KHARAZMI, A. ISMAIL, M. KEMP, A. HEY, C. B. V. CHRISTENSEN, M. DAFALLA, A. Y. EL KADARO, A. M. EL HASSAN & T. G. THEANDER: Dichotomy of the T cell response to *Leishmania* antigens in patients suffering from cutaneous leishmaniasis; absence or scarcity of Th1 activity is associated with severe infections 239

M. SOTO, J. M. REQUENA, L. QUIJADA, S. O. ANGEL, L. C. GOMEZ, F. GUZMAN, M. E. PATARROYO & C. ALONSO: During active viscerocutaneous leishmaniasis the anti-P2 humoral response is specifically triggered by the parasite P proteins 246

C. J. WATSON, J. J. FINLAY-JONES, P. J. MCDONALD & P. H. HART: IL-4 mRNA expression by peritoneal cells during episodes of peritonitis in patients on continuous ambulatory peritoneal dialysis 253

C. J. DERRY, C. N. ROSS, G. LOMBARDI, P. D. MASON, A. J. REES, R. I. LECHLER & C. D. PUSEY: Analysis of T cell responses to the autoantigen in Goodpasture's disease 262

J. SOMA, T. SAITO, J. SEINO, H. SATO, T. OOTAKA, A. YUSA & K. ABE: Participation of CR1 (CD35), CR3 (CD11b/CD18) and CR4 (CD11c/CD18) in membranoproliferative glomerulonephritis type I 269

D. RIEMANN, A. KEHLEN & J. LANGNER: Stimulation of the expression and the enzyme activity of aminopeptidase N/CD13 and dipeptidylpeptidase IV/CD26 on human renal cell carcinoma cells and renal tubular epithelial cells by T cell-derived cytokines, such as IL-4 and IL-13 277

M. ONO, T. YAMAMOTO, M. KYOGOKU & M. NOSE: Sequence analysis of the germ-line V_H gene corresponding to a nephritogenic antibody in MRL/lpr lupus mice 284

M. C. GRIMM, P. PAVLI, E. VAN DE POL & W. F. DOE: Evidence for a CD14 population of monocytes in inflammatory bowel disease mucosa—implications for pathogenesis 291

A. PANJA, E. SIDEN & L. MAYER : Synthesis and regulation of accessory/proinflammatory cytokines by intestinal epithelial cells 298

C. GABAY, B. GENIN, G. MENTHA, P. B. IYNEDJIAN, P. ROUX-LOMBARD & P.-A. GUERNE: IL-1 receptor antagonist (IL-1Ra) does not inhibit the production of C-reactive protein or serum amyloid A protein by human primary hepatocytes. Differential regulation in normal and tumour cells 306

A. RIVIER, J. PÈNE, H. RABESANDRATANA, P. CHANEZ, J. BOUSQUET & A. M. CAMPBELL: Blood monocytes of untreated asthmatics exhibit some features of tissue macrophages 314

H. W. CHU, J. M. WANG, M. BOUTET, L.-P. BOULET & M. LAVIOLETTE: Increased expression of intercellular adhesion molecule-1 (ICAM-1) in a murine model of pulmonary eosinophilia and high IgE level 319

A. YOKOYAMA, N. KOHNO, Y. HIRASAWA, K. KONDO, M. ABE, Y. INOUE, S. FUJIOKA, S. FUJINO, S. ISHIDA & K. HIWADA: Evaluation of soluble IL-6 receptor concentration in serum and epithelial lining fluid from patients with interstitial lung diseases 325

S. M. YENTIS, A. W. ROWBOTTOM & P. G. RICHES: Detection of cytoplasmic IL-1β in peripheral blood mononuclear cells from intensive care unit (ICU) patients 330

D. G. MAPPOURAS, G. PHILIPPOU, S. HARALAMBOUS, S. J. TZARTOS, A. BALAFAS, A. SOUVATZOGLOU & P. LYMBERI: Antibodies to acetylcholinesterase cross-reacting with thyroglobulin in myasthenia gravis and Graves' disease 336

I. HUITINGA, S. R. RUULS, S. JUNG, N. VAN ROOIJEN, H.-P. HARTUNG & C. D. DIJKSTRA: Macrophages in T

cell line-mediated, demyelinating, and chronic relapsing experimental autoimmune encephalomyelitis in Lewis rats 344

R. C. HARD Jr, J. L. MONTOUR & B. A. FUCHS: Immunodeficiency in RFM/(T6xRFM)F_1 mouse chimaeras with lethal host-*versus*-graft syndrome 352

P. J. WOOD & I. A. COSSENS: The influence of allo-class II MHC-specific Th2 cells on the generation of CD4 and CD8 cytotoxic T cells to associated class I and class II MHC alloantigen 359

G. STENT, L. IRVING, S. LEWIN & S. M. CROWE: The kinetics of surface expression of CD11/CD18 integrins and CD54 on monocytes and macrophages 366

Vol 100 No 3 June 1995

R. Q. H. ZHENG & D. M. KEMENY: Inhibition of gene expression by anti-sense oligodeoxynucleotides 380

K. IKIZAWA, K. KAJIWARA, T. KOSHIO, N. MATSUURA & Y. YANAGIHARA: Inhibition of IL-4 receptor up-regulation on B cells by antisense oligodeoxynucleotide suppresses IL-4-induced human IgE production 383

I. H. CHOI, T. Y. HA, D. G. LEE, J. S. PARK, J. H. LEE, Y. M. PARK & H. K. LEE: Occurrence of disseminated intravascular coagulation (DIC) in active systemic anaphylaxis: role of platelet-activating factor 390

Y. YOSHIZAWA, Y. OHTANI, T. INOUE, S. MIYAKE, A. IKEDA, M. TANBA & V. P. KURUP with the technical assistance of K. MIYAMOTO: Immune responsiveness to inhaled antigens: local antibody production in the respiratory tract in health and lung diseases 395

C. SWIDER, A. LABA, A. MONIEWSKA, J. GERDES, H.-D. FLAD & A. LANGE: Presence of mRNA for interferon-gamma (IFN-γ) in blood mononuclear cells is associated with an active stage I sarcoidosis 401

A. JAHREIS, Y. YOUSIF, J. A. RUMP, R. DRÄGER, A. VOGT, H. H. PETER & M. SCHLESIER: Two novel cationic staphylococcal proteins induce IL-2 secretion, proliferation and immunoglobulin synthesis in peripheral blood mononuclear cells (PBMC) of both healthy controls and patients with common variable immunodeficiency (CVID) 406

D. J. PHIPPS, P. REED-DOOB, D. K. MACFADDEN, J. P. PIOVESAN, G. B. MILLS & D. R. BRANCH: An octapeptide analogue of HIV gp120 modulates protein tyrosine kinase activity in activated peripheral blood T lymphocytes 412

O. PONTESILLI, M. CARLESIMO, A. R. VARANI, R. FERRARA, E. C. GUERRA, M. L. BERNARDI, G. RICCI, A. M. MAZZONE, G. D'OFFIZI & F. AIUTI: HIV-specific lymphoproliferative responses in asymptomatic HIV-infected individuals 419

J. H. VINGERHOETS, G. L. VANHAM, L. L. KESTENS, G. G. PENNE, R. L. COLEBUNDERS, M. J. VANDENBRUAENE, J. GOEMAN, P. L. GIGASE, M. DE BOER & J. L. CEUPPENS: Increased cytolytic T lymphocyte activity and decreased B7 responsiveness are associated with CD28 down-regulation on CD8 T cells from HIV-infected subjects 425

A. A. WADEE, R. H. KUSCHKE & T. G. DOOMS: The inhibitory effects of *Mycobacterium tuberculosis* on MHC class II expression by monocytes activated with riminophenazines and phagocyte stimulants 434

R. A. GUY & M. BELOSEVIC: Response of *scid* mice to establishment of *Leishmania major* infection 440

R. FUKUDA, N. ISHIMURA, TX NGUYEN, A. CHOWDHURY, S. ISHIHARA, N. KOHGE, S. AKAGI, M. WATANABE & S. FUKUMOTO: The expression of IL-2, IL-4 and interferon-gamma (IFN-γ) mRNA using liver biopsies at different phases of acute exacerbation of chronic hepatitis B 446

T. KUCHARZIK, R. STOLL, N. LÜGERING & W. DOMSCHKE: Circulating antiinflammatory cytokine IL-10 in patients with inflammatory bowel disease (IBD) 452

T. HASSAN, Y. KANISAWA, S. MEYERS, A. DASGUPTA & K. M. DAS: Expression of a unique protein on colon cancer cells that reacts with a novel monoclonal antibody and ulcerative colitis serum 457

C. BEDIN, A. ROPARS, K. MIGNON-GODEFROY & J. CHARREIRE: Molecular heterogeneity of antigen- or idiotype-induced anti-thyroglobulin monoclonal autoantibodies 463

A. C. ALLEN, S. J. HARPER & J. FEEHALLY: Galactosylation of N- and O-linked carbohydrate moieties of IgA1 and IgG in IgA nephropathy 470

T. J. NEUHAUS, M. WADHWA, R. CALLARD & T. M. BARRATT: Increased IL-2, IL-4 and interferon-gamma (IFN-γ) in steroid-sensitive nephrotic syndrome 475

H. LIU, K. OZAKI, Y. MATSUZAKI, M. ABE, M. KOSAKA & S. SAITO : Suppression of haematopoiesis by IgG autoantibodies from patients with systemic lupus erythematosus (SLE) 480

T. APPELBOOM, M. F. KAHN & N. MAIRESSE: Antibodies to small ribonucleoprotein and to 73-kD heat shock protein: two distinct markers of mixed connective tissue disease 486

G. BOIRE, M. GENDRON, N. MONAST, B. BASTIN & H. A. MENARD: Purification of antigenically intact Ro ribonucleoproteins; biochemical and immunological evidence that the 52-kD protein is not a Ro protein 489

E. D. SILVERMAN, J. BUYON, R. M. LAXER, R. HAMILTON, P. BINI, J.-L. CHU & K. B. ELKON: Autoantibody response to the Ro/La particle may predict outcome in neonatal lupus erythematosus 499

T. M. CHAN, P. M. YU, K. L. C. TSANG & I. K. P. CHENG: Endothelial cell binding by human polyclonal anti-DNA antibodies: relationship to disease activity and endothelial functional alterations 506

J. N. JARVIS, M. M. DIEBOLD, M. K. CHADWELL, M. IOBIDZE & H. T. MOORE: Composition and biological behaviour of immune complexes isolated from synovial fluid of patients with juvenile rheumatoid arthritis (JRA) 514

T. P. O'HANLON, W. A. MESSERSMITH, M. C. DALAKAS, P. H. PLOTZ & F. W. MILLER: γ T cell receptor gene expression by muscle-infiltrating lymphocytes in the idiopathic inflammatory myopathies 519

A. Nagler, V. Segal, S. Slavin & F. Levi-Schaffer: Ketotifen therapy in chronic graft-*versus*-host disease (cGVHD): effect on mast cells and fibroblasts 529

G. A. Webster, M. J. Bowles, M. S. Karim, R. F. M. Wood & A. G. Pockley: Flow cytometric analysis of peripheral blood lymphocyte subset light scatter characteristics as a means of monitoring the development of rat small bowel allograft rejection 536

Y. Osugi, J. Hara, H. Kurahashi, N. Sakata, M. Inoue, K. Yumura-Yagi, K. Kawaha, S. Okada & A. Tawa: Age-related changes in surface antigens on peripheral lymphocytes of healthy children 543

Erratum 549